



Our Services

part of NSI Anaerobic Solutions & NSI Life Cycle Services



Econvert Water & Energy

Specialists in anaerobic wastewater and biogas treatment

In the end, it's not just the equipment that treats your water, it's the whole process. At Econvert, part of Nijhuis Saur Industries, we offer various anaerobic wastewater treatment and biogas services, to maximize the performance and reliability of your installation. We value a customer-for-life approach, in which we assist you with optimizing your treatment processes in many ways, because only then you can really benefit from your investments.

Maintenance & Spare Parts

Your wastewater treatment plant requires regular maintenance to ensure its optimal functionality. Our goal is to keep your equipment performance at a high level and avoid unexpected costs and downtime.

Expert Services

Our team provides expert services to help controlling the wastewater treatment plant and optimize its performances by checking all important aspects for a properly and efficiently operating plant.

Service Projects

We execute various service projects such as installing components, upgrading your installations, modernizing your existing wastewater treatment plant with a retrofit, or repairs. We can also assist with preparing your installation before planned down-time due to for example a technological inspection or planned maintenance.

Rental

Our rental installations allow you to immediately enjoy the benefits of our technology without having to make substantial investments.

Consumables & Biomass

We can supply consumables for both anaerobic reactors and desulphurization plants which vary from different nutrient mixtures, start-up chemicals to anaerobic biomass.

Biogas treatment

We can help choose the right technology for you out of a large variety of solutions, to optimally benefit from this renewable energy source.

Our positive impact



Ensure operational reliability



Reduce operational costs



Prevent downtime of your installation



Direct access to anaerobic experts

Maintenance & Spare Parts

We provide maintenance and spare parts to keep your equipment performance at a high level and avoid unexpected costs and downtime.



MAINTENANCE

We carry out minor or major maintenances for you on an occasional or periodic basis.

SPARE PARTS SUPPLY

To avoid a breakdown and stop of the installation, it is important to stock crucial parts of your installation and perform preventive maintenance during a stop. We will be happy to make a customized offer for you.



Take a look at our
solutions and products

Scan QR-code to visit our website!

Expert Services

Our Services team provides various expert services to optimize the wastewater treatment plant performance by checking all important aspects for a properly and efficiently operating plant. This can be carried out via audits, consultancy, analyses and more.



CONSULTANCY

During a consultancy the Econvert Services team monitors and checks all important aspects for a properly and efficiently operating plant. The consultancy can include a site visit and remote assistance. Together we conclude a service level agreement which suits your needs and varies from daily to quarterly monitoring.

INSPECTION

In order to make optimal use of your installation, it is important to periodically inspect the installation. During the inspection we perform a check of the entire installation and we assess the condition of all mechanical and electrical components. Resulting in a detailed report after every inspection.

We can offer yearly external inspections and advice, and an internal inspection after 5 years.

AUDITS

A complete check of the entire system. Is everything up to date? Is the installation technically in proper condition? How is the installation technologically performing? We advise you on this after an audit has been carried out.

TROUBLESHOOTING

In the event of a calamity or disturbance, you need immediate help. We can take a look at the data and come on site to go through the entire installation with you. The troubleshooting can include the need of analysis of the wastewater and/or biomass.

ANALYSIS

Econvert offers various analyses for customers who have a decline in reactor performance or customers who want to test the degradability of their wastewater.

Analyses that we offer are:

- Anaerobic sludge activity analysis
- Toxicity analysis
- GC-MC analysis
- Anaerobic degradability analysis



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Service Projects

Our Services team executes various service projects such as: installing components and upgrading your installations. Additionally, we can support you with preparing your installation before planned down-time due to for example a technological inspection or planned maintenance.



RETROFIT

With a retrofit, we modernize your existing wastewater treatment plant. With a limited investment, we ensure that your current installation once again meets the requirements, performs optimal and is future-proof. We can carry out the retrofit regardless of who has supplied the current installation.

REPAIR

Installations which have been running for a longer period undergo regular wear and tear. We can repair any age-related damage to your wastewater treatment plant or biogas system.

UPGRADES

We can upgrade components of the wastewater treatment plant or biogas system.

Biogas treatment

The anaerobic degradation of organic material results in the production of biogas. To make sure that the biogas has the required quality, pressure and humidity to utilize it, Econvert selects the best suitable technology for you to optimally benefit from this renewable energy source.

We offer the following biogas treatment products:



Biogas Buffers

Biogas buffers for stabilizing pressure and flow



Flares

Standard flares and high temperature flares to burn the biogas when it cannot be utilized



Biogas Blowers/Compressors

Increasing pressure by means of side channel or roots blowers



Biogas Cooling/Drying

Biogas cooling/drying for lowering the dew point and avoiding issues with condensate



Consumables

We can supply consumables for both anaerobic reactors and desulphurization plants which varies from different nutrient mixtures, start-up chemicals to anaerobic biomass.



NUTRIENT MIX

We supply consumables to keep the anaerobic and sulfide oxidating bacteria in perfect condition and achieve a good and stable operation of the installation.

By adding the right nutrient mix, the biomass is fed with the required macro- and micronutrients (such as nitrogen, phosphate and trace elements).

START-UP CHEMICALS

We can deliver chemicals for the start-up or restart of your installation to create optimal conditions before the biomass is introduced.

Biomass

We can provide you with good quality biomass for your anaerobic reactor or desulphurization plant. Our Services team is available to assist you with your biomass needs. When there's excess biomass growth, we can offload the biomass. If there's no biomass growth or biomass loss, we can conduct a technological inspection and supply your reactor with additional biomass.

SELLING AND PURCHASING BIOMASS

When your installation is running properly, the biomass grows over time. When there's excess biomass growth, we can offload this biomass. If there's no biomass growth or even biomass loss in your installation, we can conduct a technological inspection of the installation to identify the cause and provide recommendations for improvement and supply your reactor with additional biomass.

SLUDGE HANDLING

We assist you in preparing your installation for maintenance. Our services include professional cleaning and complete sludge management - from sludge removal by trained personnel to temporary storage and responsible disposal in full compliance with applicable laws and regulations. After the maintenance work is completed, we assist with the start-up process, ensuring your installation is safely and efficiently returned to operation.

If you wish to carry out part of the work yourself, we can provide the necessary support to help you achieve the most efficient maintenance shutdown possible.

ANAEROBIC SLUDGE ACTIVITY ANALYSIS

With this analysis we determine various aspects such as: the quality of anaerobic sludge, possible inhibition of the biomass, sludge activity with different substrates and the average granular diameter, settling velocity and the quantity of floating sludge.



Rental



ECONVERT ANAEROBIC RENTAL

We understand that CAPEX is not always readily available to invest in anaerobic wastewater treatment, or that you may want to avoid long-term financial commitments. At Econvert we believe that anaerobic technology should be accessible to all - regardless of budget or site limitations. That's why we offer Econvert Anaerobic Rental solutions for high-performance anaerobic wastewater treatment, allowing you to immediately enjoy the benefits without having to make substantial investments. Depending on your anaerobic wastewater treatment needs, we provide both short- and long-term contracts, with two types of anaerobic rental reactors: **Econvert-EGSB®** and **Econvert-IR®**.

Advantages

- Turn-key installation with low maintenance
- Flexible contracts tailored to your needs
- No substantial CAPEX investments needed
- Fast deployment and additional temporary boosts

PILOTS

Econvert's anaerobic wastewater pilot unit is specially designed to test whether an anaerobic wastewater treatment plant is suitable to treat wastewater coming from the production process(es). This part of the raw wastewater contains organic compounds that can be tested on its biodegradability. Additionally, the pilot reactor can be used to teach your team about the operation of an anaerobic wastewater treatment plant.



Learn more about our rental solutions

Scan QR code to visit our website!

At Econvert we value a Customer-for-Life approach, where our Services team assists you with optimizing your treatment processes to maximize the performance and reliability of your installation.

Contact us to discuss your service needs:

Email: services@econvert.nl - **Tel:** +31 513 22 66 00



Econvert Water & Energy B.V.
Venus 102, 8448 GW Heerenveen
The Netherlands

+31 513 22 66 00
services@econvert.nl
www.econvert.nl

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